



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Max Christian Schuermann

Application No. 10/672,110

Filed: September 26, 2003

Art Unit: 2884

Confirmation No.: 7732

Examiner: Otilia Gabor

Atty. Docket No.: 500814.20073

Customer No.: 026418

**Arrangement for Determining
the Spectral Reflectivity of
a Measurement Object**

SECOND INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Alexandria, VA 22313

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. Enclosed is Form PTO-1449 which lists the references being cited along with a copy of each of the references.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this paper (along with any document referred to as being attached or enclosed) is being

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☒ Deposited with the United States Postal Service as Express Mail under 37 CFR 1.10 on August 4, 2006 and is addressed to the: Commissioner for Patents, Alexandria, VA 22313.

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The references may be deemed to be pertinent to the above-identified application and are being made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider each of the items and to independently ascertain their teaching.

1. ☒ Enclosed is PTO Form 1449.
2. ☐ Items listed on the enclosed Form PTO-1449 are not in the English language.

☐ For each of the following items, an English-language translation of that item or a portion thereof or a concise explanation of the relevance of that item is attached:

☐ For each of the following items, a concise explanation of that item is incorporated in pages 1 of the specification of the above-identified application:

☐ For each of the following items, a corresponding U.S. or other English-language patent is enclosed. Please consider the U.S. or other English-language patents in accordance with the procedure set forth in MPEP § 609:

3. ☐ Submission in Accordance with 37 CFR § 1.98(d).

Any copy of the items listed on the enclosed Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in Application Serial No. [Ser. No.], filed [Date], of which the present application relies upon for an earlier filing date under 35 U.S.C. 120.

4. ☐ Submission in Accordance with 37 CFR § 1.97(b).

This Information Disclosure Statement is being filed

- ☐ With the application;
- ☐ Within three months of the filing date of a national application;
- ☐ before the issuance of a first Office Action

and NO FEE is due for consideration of this Information Disclosure Statement.

5. ☒ **Submission in Accordance with 37 CFR 1.97(c).**

This Information Disclosure Statement is being filed before the first mailing date of either

☐ A final action under § 1.113; or

☒ A notice of allowance under § 1.311.

☒ A fee is due for consideration of this Information Disclosure Statement and the fee is paid below; or

☐ This Information Disclosure Statement is accompanied by one of the certifications pursuant to 37 CFR § 1.97(e), and NO FEE is due for consideration of this Information Disclosure Statement.

6. ☐ **Submission in Accordance with 37 CFR 1.97(d).**

This Information Disclosure Statement is being filed after the mailing date of either

☐ A final action under § 1.113; or

☐ A notice of allowance under § 1.311,

whichever comes first, but before payment of the issue fee, and is accompanied by

a. One of the certifications pursuant to 37 CFR § 1.97(e), which is set forth below;

b. The attached petition requesting consideration of this Information Disclosure Statement; and

c. The petition fee under 37 CFR § 1.17(i)(1), which is paid below.

7. **Certification Pursuant to 37 CFR 1.97(e).**

☐ The undersigned certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement; or

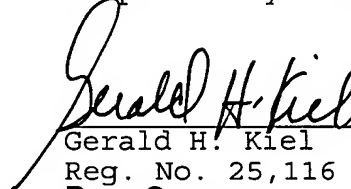
☐ The undersigned certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign

application, or to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

8. Fee Payment Being Made.

- ☒ Enclosed
 - ☒ \$180.00 fee for submission under 37 CFR § 1.97(c).
- ☐ A check in the amount of \$[Amount] to cover the fee payment is enclosed.
- ☐ Charge the fee to Deposit Account No. 50-1529. A duplicate copy of this communication is attached.
- ☒ The Director is hereby authorized to charge payment of any additional fees associated with this Information Disclosure Statement or credit any overpayment to Deposit Account No. 50-1529. A duplicate copy of this communication is enclosed.

Respectfully submitted,



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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/672,110
Filing Date	September 26, 2003
First Named Inventor	Max Christian Schuermann, et al.
Art Unit	2884
Examiner Name	Otilia Gabor
Attorney Docket Number	500814.20073

Sheet

of

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Reflectometer for EUV Lithography Components", Research Disclosure, July 2001, page 1146	
		V. Paret, et al. "Characaterization of Optics and Masks for EUV Litography," Microelectronic Engineering 61-62 (2002), Pages 145-155	
		H. Kondo, et al, "Development of EUV Reflectometer Using a Laser-Plasma X-Ray Source," Page 34	
		E.M. Gullikson et al. "A Soft X-ray/EUV Reflectometer Based on a Laser Produced Plasma Source" Journal of X-ray Science and Tecnology 3 (1192), Pages 283-299	
		D.L. Windt et al. "Multilayer Facilities Required for Extreme-Ultraviolet Lithography", 8257b Journal of Vacuum Science & Technology B (1994), Pages 3826-3832	
		M. Cui et al. "Synchrotron Radiation Soft X-ray Reflectomoeters and its Phusic Results" Nuclear Instruments and Methods in Physic Research A (1995), Pages 151-154	
		G. Schriever et al. "Laser-Produced Lithium Plasma as a Narrow-Band Extended Ultraviolet Radiation Source for Photoelectron Spectroscopy", Applied Optics (1998), Pages 1423-1248	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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